



STIC Search Report

EIC 3600

STIC Database Tracking Number: 107708

Gary Hartmann
Location Knx2A11
Art Unit: 3671
Employee# 74158
Friday, April 03, 2009
Case Serial Number: 10/799492

From: Etelka R. Griffin
Location: EIC 3600
KNOX/4B68
Phone: 571-272-4230

Etelka.griffin@uspto.gov

Search Notes

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No Litigation was found for Serial Number 10/799492.
If you have any questions, please feel free to contact me.

Thanks
Etelka



Application Number Information

Application Number: 10/799492

Assignments

Filing or 371(c) Date: 03/12/2004 eDan

Effective Date: 03/12/2004

Application Received: 03/15/2004

Patent Number:

Issue Date: 00/00/0000

Date of Abandonment: 00/00/0000

Attorney Docket Number: 032687 08

Status: 89 /ALLOWANCE COUNTED

Confirmation Number: 5902

Title of Invention: COMPRESSIBLE WELDED WIRE WALL FOR RETAINING EARTHEN FORMATIONS

Examiner Number: 77697 / PECHHOLD, ALEXANDRA

Group Art Unit: 3671

IFW Madras

Class/Subclass: 405/284.000

Lost Case: NO

Interference Number:

Unmatched Petition: NO

L&R Code: Secrecy Code: 1

Third Level Review: NO

Secrecy Order: NO

Status Date: 10/28/2005

Oral Hearing: NO

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
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Appln
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Contents

Petition Info

Atty/Agent Info

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Continuity/Reexam Information for 10/799492

Parent Data10799492, filed 03/12/2004is a reissue of 09568338, filed 05/10/2000**Child Data**

No Child Data

Appln Info

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Petition Info

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Application Number InformationApplication Number: **09/568338****Assignments**Filing or 371(c) Date: **05/10/2000** eDanEffective Date: **05/10/2000**Application Received: **05/11/2000**Patent Number: **6357970**Issue Date: **03/19/2002**Date of Abandonment: **00/00/0000**Attorney Docket Number: **HFKP-300**Status: **150 /PATENTED CASE**Confirmation Number: **8111**Title of Invention: **COMPRESSIBLE WELDED WIRE WALL FOR RETAINING EARTHEN FORMATIONS**Examiner Number: **77697 / PECHHOLD, ALEXANDRA**Group Art Unit: **3673****IFW Madras**Class/Subclass: **405/284.000**Lost Case: **NO**

Interference Number:

Unmatched Petition: **NO**L&R Code: Secrecy Code: **1**Third Level Review: **NO**Secrecy Order: **NO**Status Date: **03/01/2002**Oral Hearing: **NO**

Bar Code	PALM Location	Location Date	Charge to Loc	Charge to Name	Employee Name	Location
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Appln
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568338 (09) 6357970 March 19, 2002

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6357970[Get Drawing Sheet 1 of 8](#)[Access PDF of Official Patent *](#)[Order Patent File History / Wrapper from REEDFAX®](#)[Link to Claims Section](#)

March 19, 2002

Compressible welded wire wall for retaining earthen formations

REISSUE: March 12, 2004 - Reissue Application filed Ex. Gp.: 3673; Re. S.N. 10/799,492 (O.G. June 15, 2004)**INVENTOR:** Hilfiker, Harold K. - Eureka, California, United States (US)Hilfiker, William B. - Eureka, California, United States (US)**APPL-NO:** 568338 (09)**FILED-DATE:** May 10, 2000**GRANTED-DATE:** March 19, 2002**ASSIGNEE-PRE-ISSUE:** May 10, 2000 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., HILFIKER PIPE COMPANY 3900 BROADWAYEUREKA, CALIFORNIA, 95503, Reel and Frame Number: 011029/0530**ASSIGNEE-AT-ISSUE:** Hilfiker Pipe Company, Eureka, California, United States (US), United States company or corporation (02)**CORE TERMS:** mat, lift, wire, backing, reinforcing, soil, transverse, longitudinal, floor, successive ...**ENGLISH-ABST:**

An improved method and apparatus for constructing a soil reinforced earthen retaining wall wherein successive soil reinforcing mats embedded within an earthen formation have bent-up face elements which are slidably engaged to enable the earthen formation to settle without bulging the face elements. Backing mats are disposed behind the face elements for movement relative thereto in generally vertical planes. The backing mats serve to support the successive soil reinforcing mats and permit the mats to move toward one another to

accommodate settling of the formation without bulging of the face elements.

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Segments: Abst, Assignee, Date, English-title, Filed-date, Inventor, Legal-status, Reissue

Date/Time: Friday, April 3, 2009 - 11:25 AM EDT

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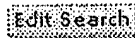
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w/N	within N words	w/s	in same sentence
pre/N	precedes by N words	and not	and not

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1 / 1 FAMPAT - @Questel

Family Accession Nbr :

20042800337495

Patent Number :

US6357970 B1 20020319 [US6357970]

Title :

Compressible welded wire wall for retaining earthen formations

Patent Assignee :

HILFIKER PIPE COMPANY

Orig. Patent Assignee :

Hilfiker Pipe Company, Eureka CA [US]

Inventor(s) :

HILFIKER HAROLD K; HILFIKER WILLIAM B

Application Nbr :

2000US-0568338 20000510

Priority Details :

2000US-0568338 20000510

IPC :

E02D-017/20

E02D-029/02

IPC Advanced All :

E02D-029/02 [2006-01 A - I R M EP]

IPC Core All :

E02D-029/02 [2006 C - I R M EP]

ECLA :

E02D-029/02D2

US Class :

ORIGINAL (O) : 405302700; CROSS-REFERENCE (X) : 405262000 405284000
405302400 405302600

Citations :

(US6357970)

Cited by the applicant

-US4117686 (A) [US4117686]

-US4329089 (A) [US4329089]

-US4391557 (A) [US4391557]

-US4505621 (A) [US4505621]

-US4643618 (A) [US4643618]

-US4856939 (A) [US4856939]

-US5531547 (A) [US5531547]

-US5622455 (A) [US5622455]

-US5722799 (A) [US5722799]

-US5733072 (A) [US5733072]

-FR2303121 (A1) [FR2303121]

-Barry R. Christopher, etc., "The Heavy Duty Geogrid Wall," Civil Engineering, May 1988, pp. 75-77.

Abstract :

(US6357970)

An improved method and apparatus for constructing a soil reinforced earthen retaining wall wherein successive soil reinforcing mats embedded within an earthen formation have bent-up face elements which are slidably engaged to enable the earthen formation to settle without bulging the face elements. Backing mats are disposed behind the face elements for movement relative thereto in generally vertical planes. The backing mats serve to support the successive soil reinforcing mats and permit the mats to move toward one another to accommodate settling of the formation without bulging of the face elements..

Object of Invention :

(US6357970)

The present invention relates to the retention of earthen formations and, more particularly, is concerned with a retaining and reinforcing mechanism made up of welded wire mats having face sections which are secured to one another.

In its more specific aspects, the invention is concerned with an improved method and apparatus which accommodates settling of the earthen formation, without bulging of the face sections of the wall.

The present invention provides a welded wire reinforced soil retaining wall where the horizontal soil reinforcing elements may move toward one another in response to the settling of an earthen formation, without bulging of the face sections.

A principal object of the invention is to provide a soil reinforced retaining wall utilizing welded wire soil reinforcing elements having face sections which can accommodate settling of the retained earthen formation, without bulging.

Another object of the invention is to provide such a wall in which the face maintains its integrity and aesthetic appearance, even where settlement of the earthen formation takes place.

Still another object of the invention is to provide such a wall which will adapt to the settlement of a retained earthen formation which frequently occurs as the result of inadequate compaction of fill and/or poor fill quality.

Yet another object of the invention is to provide such a wall in which the soil reinforcing elements are securely held together during erection of the wall, while still permitting relative movement of the elements in response to settlement of the earthen formation being retained.

Still another and more specific object is to provide such a wall wherein the number of components and their complexity is no greater than that of other soil enforced wire walls presently in use.

Another object is to provide such a wall which maintains its integrity throughout its life.

Independent Claims :

(US6357970)

1. A soil reinforced retaining wall for an earthen formation, comprising:

a) a plurality of welded wire soil reinforcing mats successively embedded in the formation one above the other in generally horizontal spaced relationship, each mat having a generally horizontal floor comprised of a gridwork of wires and a face comprised of generally vertically extending wires wherein the wires of the face of each mat are held against horizontal displacement by the reinforcing mat thereabove and are free to move vertically relative thereto; and,

b) a welded wire backing mat disposed behind the vertically extending wires of the face of each reinforcing mat for movement relative thereto in a generally vertical plane, each backing mat having an element for supporting engagement with the next successive reinforcing mat thereabove and being spaced from the floor of the reinforcing mat therefor to permit the next successive reinforcing mat to settle to accommodate settling of the earthen formation.

9. A method of constructing a soil reinforced retaining wall for an earthen formation, comprising:

a) embedding a plurality of welded wire soil reinforcing mats in the formation in generally horizontal spaced relationship to one another so that each mat has a generally horizontal floor comprised of a gridwork of wires and a face comprised of generally vertically extending wires wherein the wires of the face of each reinforcing mat are held against horizontal displacement by the mat thereabove and are free to move vertically relative thereto; and,

b) positioning a welded wire backing mat behind the vertically extending wires of the face of each reinforcing mat for movement relative thereto in a generally vertical plane, each backing mat being disposed for supporting engagement with the next successive reinforcing mat thereabove and being spaced from the floor of the reinforcing mat therefor to permit the next successive reinforcing mat to settle to accommodate settling of the earthen formation.

17. A soil reinforced retaining wall for an earthen formation, comprising:

a) first and second welded wire soil reinforcing mats embedded in the formation in generally horizontally spaced relationship with the second mat being disposed above the first mat and the first mat having a face extending upwardly from one end thereof toward the second mat; and,
b) support means carried by the face of the first mat and disposed for supporting engagement with the second mat, said means being movable relative to the face to permit the second mat to move vertically relative to the first mat to accommodate settling of the earthen formation without bulging of the face.

Update New docs :
2002-13

1 / 1 LGST - ©EPO

Patent Number :

US6357970 B1 20020319 [US6357970] (B1) Granted patent as first publication

Application Number :

US56833800 20000510 [2000US-0568338]

Publication actions :

20000510 US-API [POS; EXM]

FILING DETAILS

US56833800 20000510 [2000US-0568338]

20020319 US-B1 [POS; PIF]

Granted patent as first publication

US6357970 B1 20020319 [US6357970]

Action Taken :

20000510 US/AS-A [NMC]

ASSIGNMENT

OWNER: HILFIKER PIPE COMPANY 3900 BROADWAY EUREKA CALIFOR; EFFECTIVE

DATE: 20000502

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:HILFIKER, HAROLD K.;HILFIKER, WILLIAM B.;REEL/FRAME:011029/0530

20040615 US/RF-A [OPP]

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20040312

Lasted Event Group :

OPP

Alive

Update Code :

2004-29

1 / 1 CRXX - ©CLAIMS/RRX

Patent Number :

6,357,970 A 20020319 [US6357970]

Patent Assignee :

Hilfiker Pipe Co

Actions :

20040312 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20040615

REISSUE REQUEST NUMBER: 10/799492

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3673

Reissue Patent Number:

1 / 1 PLUSPAT - @Questel

Patent Number :

US6357970 B1 20020319 [US6357970]

Title :

(B1) Compressible welded wire wall for retaining earthen formations

Patent Assignee :

(B1) HILFIKER PIPE COMPANY (US)

Patent Assignee :

Hilfiker Pipe Company, Eureka CA [US]

Inventor(s) :

(B1) HILFIKER HAROLD K (US); HILFIKER WILLIAM B (US)

Application Nbr :

US56833800 20000510 [2000US-0568338]

Priority Details :

US56833800 20000510 [2000US-0568338]

Intl Patent Class :

(B1) E02D-017/20

IPC Advanced All :

E02D-029/02 [2006-01 A - I R M EP]

IPC Core All :

E02D-029/02 [2006 C - I R M EP]

EPO ECLA Class :

E02D-029/02D2

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ORIGINAL (O) : 405302700; CROSS-REFERENCE (X) : 405262000 405284000
405302400 405302600

Document Type :

Basic

Citations :

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-US4391557(A) [US4391557]

-US4505621(A) [US4505621]

-US4643618(A) [US4643618]

-US4856939(A) [US4856939]

-US5531547(A) [US5531547]

-US5622455(A) [US5622455]

-US5722799(A) [US5722799]

-US5733072(A) [US5733072]

-FR2303121(A1) [FR2303121]

-Barry R. Christopher, etc., "The Heavy Duty Geogrid Wall," Civil Engineering, May 1988, pp. 75-77.

Publication Stage :

(B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001

Abstract :

An improved method and apparatus for constructing a soil reinforced earthen retaining wall wherein successive soil reinforcing mats embedded within an earthen formation have bent-up face elements which are slidably engaged to enable the earthen formation to settle without bulging the face elements. Backing mats are disposed behind the face elements for movement relative thereto in generally vertical planes. The backing mats serve to support the successive soil reinforcing mats and permit the mats to move toward one another to accommodate settling of the formation without bulging of the face elements.

Update Code :

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Patent Number :

US6357970 B1 20020319 [US6357970] (B1) Granted patent as first publication

Application Number :

US56833800 20000510 [2000US-0568338]

Publication actions :

20000510 US-API [POS; EXM]

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20020319 US-B1 [POS; PIF]

Granted patent as first publication

US6357970 B1 20020319 [US6357970]

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20000510 US/AS-A [NMC]

ASSIGNMENT

OWNER: HILFIKER PIPE COMPANY 3900 BROADWAY EUREKA CALIFOR; EFFECTIVE

DATE: 20000502

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:HILFIKER, HAROLD K.;HILFIKER, WILLIAM B.;REEL/FRAME:011029/0530

20040615 US/RF-A [OPP]

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20040312

Lasted Event Group :

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Alive

Update Code :

2004-29

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Patent Number :

6,357,970 A 20020319 [US6357970]

Patent Assignee :

Hilfiker Pipe Co

Actions :

20040312 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20040615

REISSUE REQUEST NUMBER: 10/799492

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3673

Reissue Patent Number: